F ENT COOPERATION TREA

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
10 October 2000 (10.10.00)

in its capacity as elected Office

International application No. PCT/US00/03455

7441/VB

International filing date (day/month/year) 10 February 2000 (10.02.00) Priority date (day/month/year)
22 February 1999 (22.02.99)

Applicant's or agent's file reference

Applicant

KLUESENER, Bernard, William et al

	1.	The designated Office is hereby notified of its election made:
l		X in the demand filed with the International Preliminary Examining Authority on:
l		17 July 2000 (17.07.00)
		in a notice effecting later election filed with the International Bureau on:
		
	2.	The election X was
		was not
		made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
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l		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

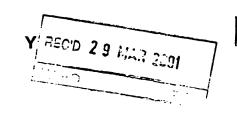
Authorized officer

Zakaria EL KHODARY

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Facsimile No.: (41-22) 740.14.35





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or age	ent's file reference	EOD EUDTUED AG	TION	Notification of Transmittal of International
7441/VB			FOR FURTHER AC	FION Prei	minary Examination Report (Form PCT/IPEA/416)
Internationa	ıl appi	ication No.	International filing date (d	tay/month/year)	Priority date (day/month/year)
PCT/US	00/03	3455	10/02/2000		22/02/1999
C11D1/7		ent Classification (IPC) or na	tional classification and IPC		
Applicant THE PRO	СТ	ER & GAMBLE COMP	ANY et al.		
1. This i and is	ntern tran	ational preliminary exami smitted to the applicant a	nation report has been ccording to Article 36.	prepared by th	is International Preliminary Examining Authority
2. This f	REPO	PRT consists of a total of	5 sheets, including this	cover sheet.	
b	een a		is for this report and/or	sheets contain	cription, claims and/or drawings which have ing rectifications made before this Authority ader the PCT).
These	ann	exes consist of a total of	sheets.		
3. This r	eport	contains indications rela	ting to the following iten	ns:	
1	\boxtimes	Basis of the report			
П		Priority			
III		Non-establishment of o	pinion with regard to no	velty, inventive	step and industrial applicability
IV		Lack of unity of invention	n		
. V	⊠	Reasoned statement ur citations and explanation			y, inventive step or industrial applicability;
VI		Certain documents cite	ed ·		
VII	\boxtimes	Certain defects in the in	ternational application		
VIII	×	Certain observations or	the international applic	eation	
Date of sub	missio	on of the demand		Date of comple	tion of this report
17/07/20	00			28.03.2001	
	exam Euro NL-	g address of the international ining authority: opean Patent Office - P.B. 58 2280 HV Rijswijk - Pays Bas +31 70 340 - 2040 Tx: 31 68	118 Patentlaan 2	Authorized office Ainscow, J	CET
		+31 70 340 - 2040 TX: 31 6: : +31 70 340 - 3016	эт ероти	Telephone No.	+31 70 340 3886

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/03455

I. Basis	of the	report
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1.	res _i the	ponse to an invitation	rawn on the basis of (substitute sheets which have been furnished to the receiving Office in under Article 14 are referred to in this report as "originally filed" and are not annexed to o not contain amendments (Rules 70.16 and 70.17).):
	1-3	4	as originally filed
	Cla	ims, No.:	
	1-10	0	as originally filed
2.	With	h regard to the lang guage in which the i	puage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:
			translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	iblication of the international application (under Rule 48.3(b)).
		the language of a f 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule
3.			leotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:
		contained in the in	ternational application in written form.
		filed together with	the international application in computer readable form.
		furnished subsequ	ently to this Authority in written form.
		furnished subsequ	ently to this Authority in computer readable form.
			t the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.
		The statement that listing has been full	t the information recorded in computer readable form is identical to the written sequence rnished.
4.	The	e amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5.			en established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: No:

Claims 3,6,7,9

Claims 1,2,4,5,8,10

Inventive step (IS)

Yes: Claims

No: Claims 1-10

Industrial applicability (IA)

Yes:

Claims 1-10

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Item V:

The following documents are referred to:

- WO-A-95/34633
- D2 EP-A-0254208
- D3 EP-A-0124815
- D4 WO-A-99/06466
- D5 WO-A-98/11186
- D6 GB-A-2158080
- D7 EP-A-0343504
- D1 discloses automatic dishwashing compositions comprising "BASF LF 221" (see page 20, formulations 2 and 4) together with a builder and a bleach. BASF LF 221 is C_{13-15} alkyl-O-(EO)₉₋₁₀(BO)₁₋₂ according to the footnote and therefore appears to be within both formulae b(i) and b(ii) in present claim 1.

D2 (examples 7-10) discloses similar compositions. The surfactants are as described in examples 1-3, and include compounds according to present formula b(i) and b(ii).

D3 (examples 2 and 4 read in conjunction with table I on page 7) also discloses automatic dishwashing compositions comprising surfactants b(i) and b(ii) and a builder.

In D4, examples 8, 11, 12 and 14 an ether-capped polyethoxylated alcohol as described in example 6 is used in granular automatic dishwashing compositions which further comprise builder, bleach, cobalt catalyst, bleach activator and enzyme.

D5, examples 1-3 discloses compositions similar to those used in D4.

D6, example 4 and D7, page 5 also appear to be according to present claim 1, alternative b(ii).

The subject-matter of claims 1, 2, 4, 5, 8 and 10 does not therefore seem to be novel (Article 33(2)).

The features of claims 3, 6 and 9 are obvious modifications in view of D4, pages 2. 15-19, 24 and 37-38, and similar passages in D5. Claim 7 is not entirely clear for the reasons given under Item VIII below. Furthermore, the compounds listed seem to be obvious selections from the above-mentioned prior art for which no surprising effect has been shown.

Claims 3, 6, 7 and 9 do not therefore involve an inventive step (Article 33(3)).

EXAMINATION REPORT - SEPARATE SHEET

It m VII:

- 1. "Inches" do not comply with Rule 10.1.
- 2. "Incorporated by reference" seems redundant in view of PCT/GL/IPE II-4.17.
- 3. On pages 14 and 16 unpublished documents are referred to (cf. PCT/GL/IPE II-4.18).
- 4. D1-D7 should have been referred to in the description (Rule 5.1(a)(ii)).

Item VIII:

1. From claim 1 it appears that surfactant b(i) consists of successive blocks of EO, optionally PO, and finally BO as a capping block. However four formulae in claim 7 show either alkyl-PO-EO-BO or alkyl-BO-EO-BO, which thus appear inconsistent with claim 1.

Similarly, it appears from that surfactant b(ii) is a double-capped polyalkylene glycol where the alkoxy group has 2-6 carbon atoms. There is no indication in claim 1 that the polyalkoxy group can be a mixture of different alkoxy units, but the penultimate formula in claim 7 shows a mixture of EO and PO.

In view of these inconsistencies, claims 1 and 7 are not clear (Article 6).

- 2. On page 3, last paragraph it is stated that the invention relates to butoxy capped surfactants, but surfactant b(ii) includes no such restriction. Furthermore, noting that the R² group of b(ii) is optionally hydroxy-substituted, it appears possible for b(ii) to be uncapped. Further clarification is necessary.
- 3. The definition of *X/Y number" on page 6 should be included in claim 1 for the sake of clarity (PCT/GL/IPE III-4.2).
- 4. Some occurrences of "about" on pages 2-4 are inconsistent with claim 1. The same applies to "optionally" on page 9.
- 5. The figures 99.9% and 95% at the foot of page 12 do not seem possible, as claim 1 requires a minimum of 5.1% builder and surfactant.

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Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: AUTOMATIC DISHWASHING COMPOSITIONS COMPRISING SELECTED NONIONIC SURFACTANTS

(57) Abstract

Automatic dishwashing detergent compositions comprising: a) 5 % to 90 % by weight of builder; b) 0.1 % to 15 % by weight of: 1) a surfactant of the formula R¹(EO)_a(PO)_b(BO)_c, wherein R¹ is a linear or branched C₆ to C₂₀ alkyl; a is from 2 to 30; b is from 0 to 30; c is from 1 to 30; and said surfactant has an X/Y number less than 1.90; and or ii) a surfactant of the formula R¹O¢CH2CH(R³)O!e?R², wherein R1 is a hydrocarbon radical having from 1 to 30 carbon atoms; R2 is a hydrocarbon radical having 1 to 30 carbon atoms; R3 is H, or a linear aliphatic hydrocarbon radical having from 1 to 4 carbon atoms; e is an integer having an average value from 1 to 40; c) optionally, from 0.1 % to 40 % by weight of a bleaching agent and d) adjunct materials, such as enzymes, surfactants other than (b), or chelating agents.

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Interi nal Application No PCT/US 00/03455

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D1/72

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C11D

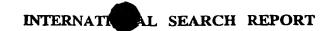
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUM	INTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 34633 A (ECOLAB INC) 21 December 1995 (1995-12-21) page 20, formulations 2 and 4	1,10
X	EP 0 254 208 A (HENKEL KGAA) 27 January 1988 (1988-01-27) examples 1-3,7-10	1,10
X	EP 0 124 815 A (HENKEL KGAA) 14 November 1984 (1984-11-14) examples 2,4; table I	1,10
X	WO 99 06466 A (SCHEPER WILLIAM MICHAEL; SIVIK MARK ROBERT (US); PROCTER & GAMBLE) 11 February 1999 (1999-02-11) pages 15-19,24,37,38; examples 6,8,11,12,14	1-10

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
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Date of the actual completion of the international search	Date of mailing of the international search report
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Interr nal Application No PCT/US 00/03455

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	EP 0 343 504 A (HENKEL KGAA) 29 November 1989 (1989-11-29) page 5		1,10
A	EP 0 054 895 A (HOECHST AG) 30 June 1982 (1982-06-30) page 9, lines 13-30; page 12, lines 25-29; examples 7,8,10		1-10
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Interr nai Application No PCT/US 00/03455

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